

MM4c: Partitioning

$$4.3 \times 8 = 34.4$$

$$\begin{array}{c} \text{32} \\ (4 \times 8) \end{array} + \begin{array}{c} \text{2.4} \\ (0.3 \times 8) \end{array} = 34.4$$

A quick recap...

MM4c: Partitioning

$$4.3 \times 8 = 34.4$$

$$\begin{array}{c} \text{32} \\ (4 \times 8) \end{array} + \begin{array}{c} \text{2.4} \\ (0.3 \times 8) \end{array} = 34.4$$

$$2.8 \times 5$$

MM4c: Partitioning

$$4.3 \times 8 = 34.4$$

$$\begin{array}{c} \text{32} \\ (4 \times 8) \end{array} + \begin{array}{c} \text{2.4} \\ (0.3 \times 8) \end{array} = 34.4$$

$$3.4 \times 4$$

$$4.7 \times 6$$

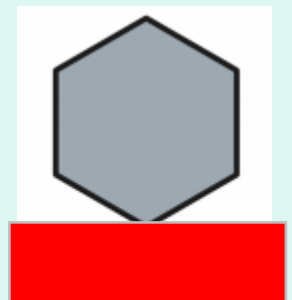
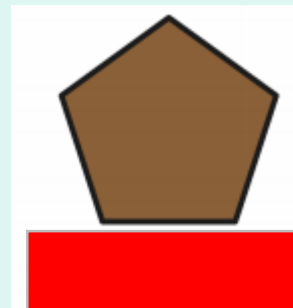
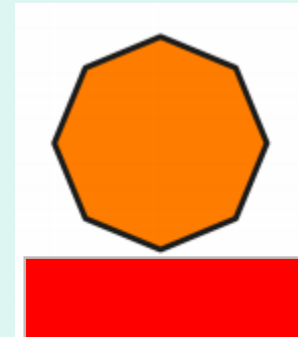
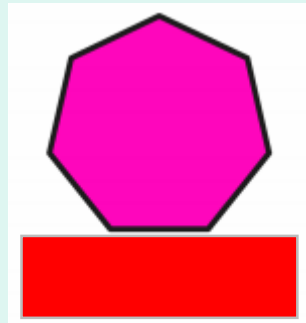
$$12.3 \times 5$$

2D Shapes

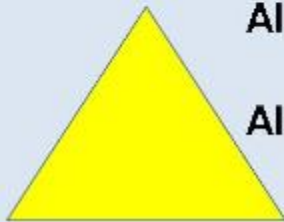


2 Dimensional
Parallel
Perpendicular
Angles
Polygon
Sides
Vertices
Symmetry
Regular
Irregular

*What are the shapes below?
Describe their features using the vocabulary
to the left.*

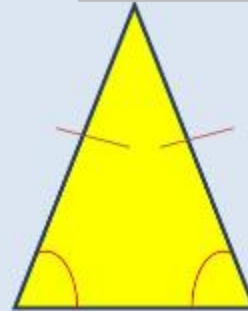


Types of Triangles



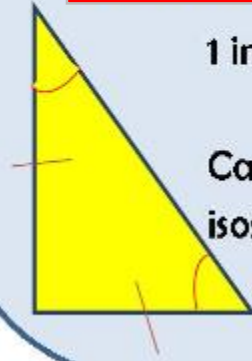
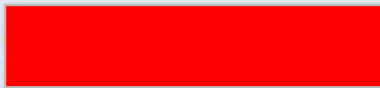
All sides the same length

All internal angles the same



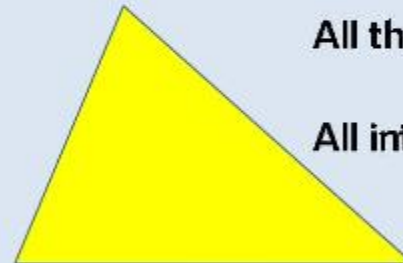
2 sides the same length

2 internal angles the same



1 internal angles that is 90°

Can be either scalene or isosceles as well



All the different length

All internal angles different

Types of Quadrilateral



4 right angles

4 equal sides

Opposite sides are parallel

All sides the same length

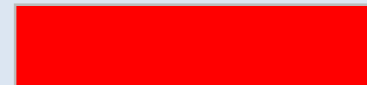


0 right angles

4 equal sides

Opposite sides are parallel

All sides the same length



0 right angles

2 sets of equal sides

No sides are parallel

2 pairs of sides the same length

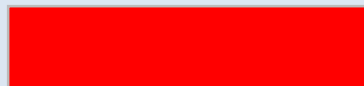


4 right angles

4 equal sides

Opposite sides are parallel

Opposite sides the same length

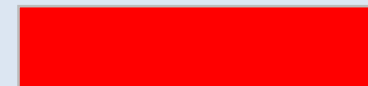


0 right angles

2 sets of equal sides

Opposite sides are parallel

Opposite sides the same length

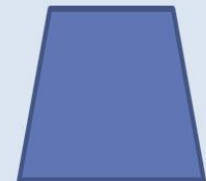


0 right angles

2 sets of equal sides

1 set of sides are parallel

sides can be any length



What is an angle?

Key Vocabulary

Interior Angles

Right Angle

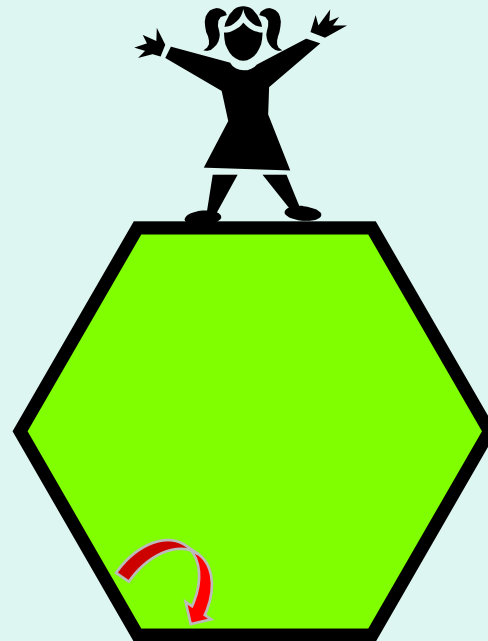
Acute Angle

Obtuse Angle

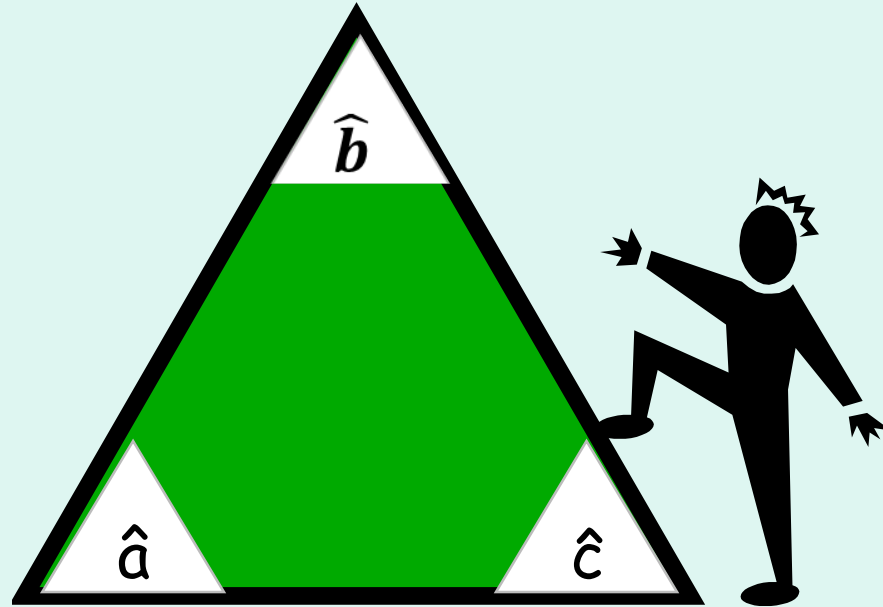
Reflex Angle

Interior angles of polygons

This is just one of
the six interior
angles of this
polygon



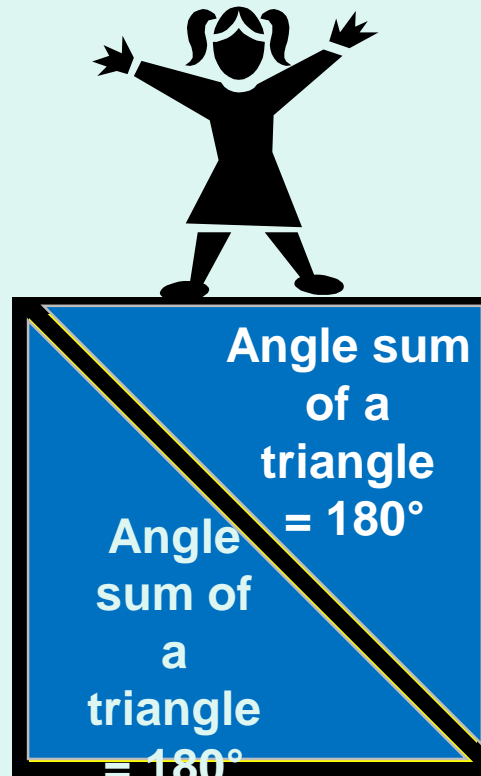
A polygon with 3 sides is a triangle



The angle sum of a triangle is
 180°

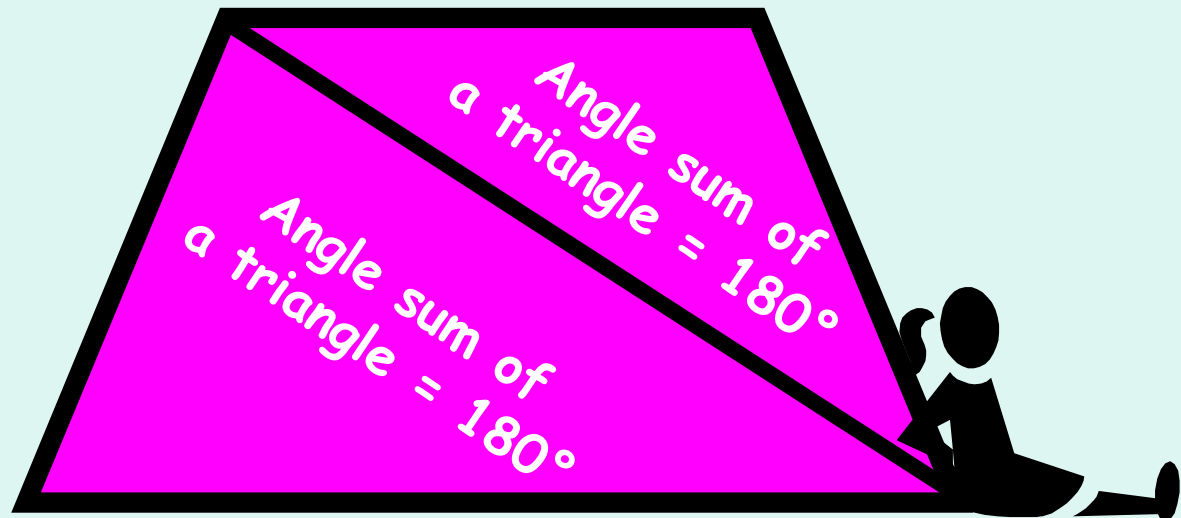
$$\hat{a} + \hat{b} + \hat{c} = 180^\circ$$

What is the angle sum of a quadrilateral?



The angle sum of a quadrilateral is 360°

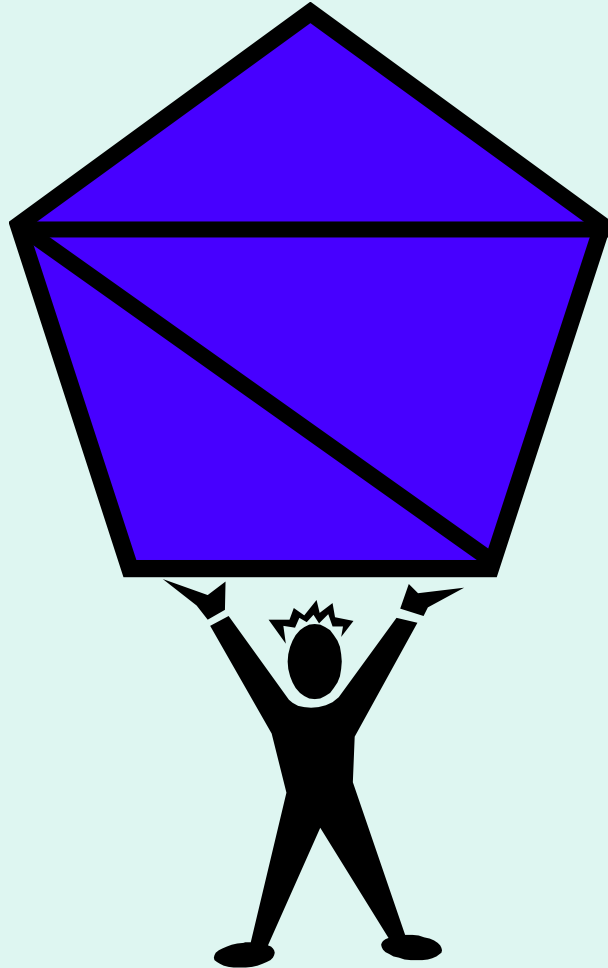
Here is a different quadrilateral
but the method is the same



The angle sum of a quadrilateral is 360°

What is the angle sum of a pentagon?

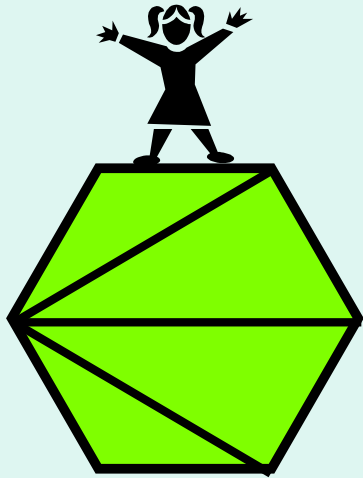
This time
you can
divide the
polygon into
3 triangles



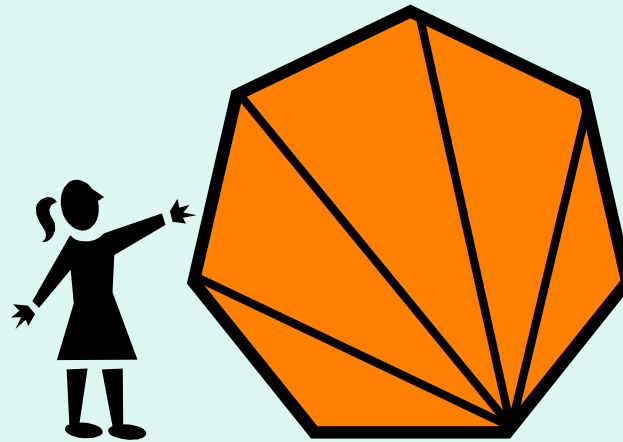
$$180^{\circ} \times 3 = 540^{\circ}$$

The angle sum of a pentagon is 540°

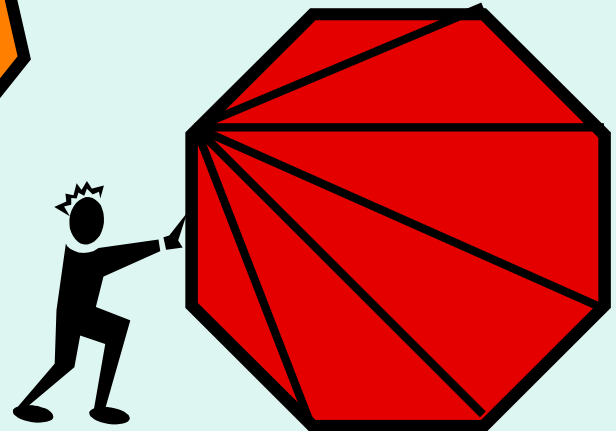
You can find the angle sum of any polygon by dividing it up into triangles



$$180^\circ \times 4 = 720^\circ$$

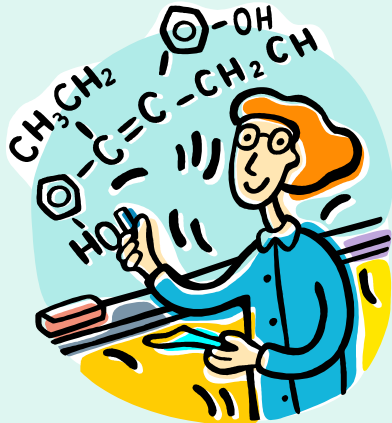


$$180^\circ \times 5 = 900^\circ$$



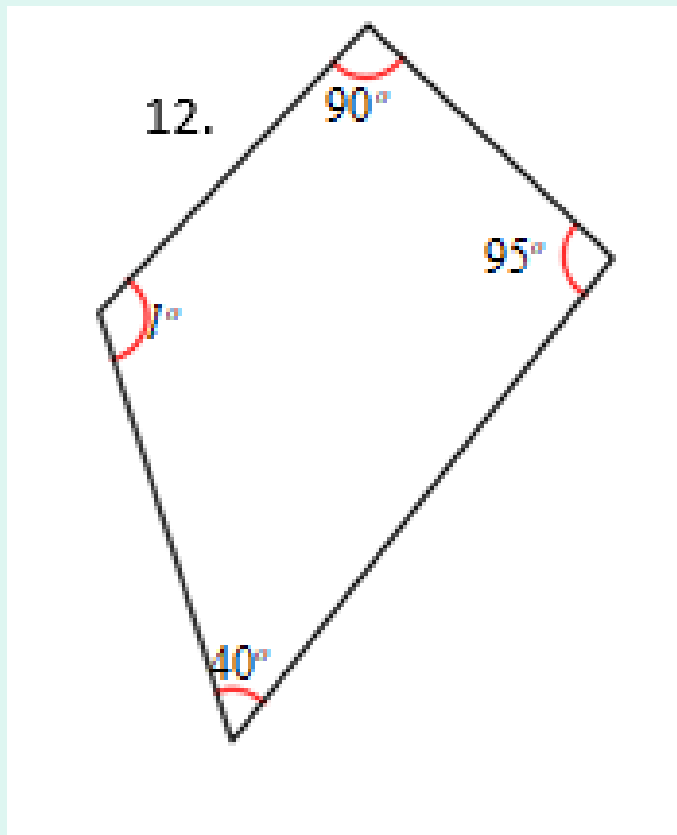
$$180^\circ \times 6 = 1080^\circ$$

FOR THOSE OF YOU WANTING A CHALLENGE!



Finding a formula

What is the formula for finding the angle sum
of a dodecagon
(a 12-sided polygon)?



Explain how you know:

Have a go at the task above before taking on either the green, yellow or red challenge!